STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

Memorandum To: Project Engineers
Project Design Engineers

From: G. R. Perfetti, P. E.
State Bridge Design Engineer

Date: January 12, 2009

Subject: STEEL GIRDERS WITH ELASTOMERIC BEARINGS
(Supersedes: GROUT CANS FOR ELASTOMERIC BEARINGS – 9/7/04)

When elastomeric bearing pads are used at expansion ends of steel girders with bearing-to-bearing distances greater than 120 ft. (36.58m), detail grout cans to accommodate placement of anchor bolts. Use the appropriate elastomeric bearing details model showing the grout cans, and the following notes:

The contractor's attention is called to the following procedure, which may be required by the Engineer, to reset elastomeric bearings due to girder translation and end rotation:

1. ***Once the deck has cured, the girders shall be jacked then the anchor bolts and elastomeric bearing slots centered as nearly as practical about the bearing stiffener. This operation shall be performed at approximately 60° F (16° C).***
2. ***After centering the elastomeric bearing slots and anchor bolts, the anchor bolts shall be grouted.***

The contractor may propose alternate methods, provided details are submitted to the Engineer for review and approval.

When elastomeric bearing pads are used at expansion ends of steel girders with bearing-to-bearing distances less than or equal to 120 ft. (36.58 m), use the appropriate elastomeric bearing details model with the following notes:

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
STRUCTURE DESIGN
1581 MAIL SERVICE CENTER
RALEIGH NC 27699-1581

TELEPHONE: 919-250-4037
FAX: 919-250-4082

WEBSITE: WWW.DOH.DOT.STATE.NC.US

LOCATION:
CENTURY CENTER COMPLEX
BUILDING A
1000 BIRCH RIDGE DRIVE
RALEIGH NC 27610

The contractor's attention is called to the following procedure, which may be required by the Engineer, to reset elastomeric bearings due to girder translation and end rotation:

1. ***Once the deck has cured, the girders shall be jacked and the elastomeric bearing slots centered as nearly as practical about the bearing stiffener. This operation shall be performed at approximately 60° F (16° C).***

The contractor may propose alternate methods, provided details are submitted to the Engineer for review and approval.

This policy is effective with the April, 2009 letting. The standard notes have been updated and are available via the network drive and Structure Design's web site. The Design Manual will be revised at a later date.

GRP/BCH

cc: T. K. Koch, P. E.
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